

a) Field of the Invention:--.

Page 3, lines 1-2, delete in their entirety and substitute therefor:

--Description of the Related Art:--.

Page 4, lines 2-3, delete in their entirety and substitute therefor:

--SUMMARY OF THE INVENTION--(centered);

lines 18-19, delete in their entirety.

Page 5, lines 3, 9, 14, 18 and 22, delete in their entirety.

Page 6, lines 1, 6 and 12, delete in their entirety.

Page 7, lines 5-6, delete in their entirety and substitute therefor:

--BRIEF DESCRIPTION OF THE DRAWINGS

a2  
A more complete appreciation of the invention and many of the attendant advantages thereof will be readily obtained as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings, wherein:

Fig. 1 is an enlarged schematic cross-sectional view of a magneto-optical device according to one embodiment of the present invention.

Fig. 2 is an enlarged schematic top view of the magneto-optical device of Fig. 1.

Fig. 3 is an enlarged schematic cross-sectional view of a magneto-optical device according to another embodiment of the present invention.

Fig. 4 is an enlarged schematic cross sectional view of a ferromagnetic thin film layer superimposed with non-magnetic semiconductor or metal layers according to the present invention.

Fig. 5a shows a schematic cross-sectional view of the micro magnetic head in accordance with one embodiment of the present invention.

Fig. 5b shows a schematic top-view of the micro magnetic head in accordance with one embodiment of the present invention.

Fig. 6 is a schematic circuit diagram of one embodiment of the magneto-optical device of the present invention for writing and reading using a two-dimensional micro magnetic head array.

Figs. 7a is a cross sectional view of a reading head according to the present invention.

Fig. 7b is a top view of a reading head according to the present invention.

Fig. 8 is a schematic circuit diagram of another embodiment for writing and reading using a one-dimensional micro magnetic head array according to the present invention.

Fig. 9 is a cross sectional view of the magneto-optical device of the present invention, which illustrates the manifestation of contrast when the magneto-optical device of the present invention is used in a display device.

Figs. 10a-h illustrate the fabrication process steps of the magneto-optical device of the present invention.

---

DETAILED DESCRIPTION OF THE INVENTION--;

---

lines 13 and 24, delete in their entirety.

Page 8, lines 10 and 18, delete in their entirety.

Page 9, lines 1, 12 and 21, delete in their entirety.

Page 10, lines 7, 16 and 23, delete in their entirety.

Page 11, lines 7 and 21, delete in their entirety.

Page 12, line 14, delete in its entirety.

Page 13, lines 12 and 18, delete in their entirety.

Page 14, lines 5, 14 and 24, delete in their entirety.

Page 15, lines 11 and 16, delete in their entirety.

Page 16, line 5, delete in its entirety.

Page 17, line 1, delete in its entirety.

Page 18, lines 2 and 18, delete in their entirety.

Page 19, lines 8 and 21, delete in their entirety.

Page 20, lines 6 and 23, delete in their entirety.

Page 21, lines 12 and 21, delete in their entirety.

Page 22, lines 12 and 21, delete in their entirety.

Page 23, lines 8, 15 and 24, delete in their entirety.

Page 24, line 10, delete in its entirety.

Page 25, lines 6 and 19, delete in their entirety.

Page 26, lines 15 and 23, delete in their entirety.

Page 27, lines 15 and 20, delete in their entirety.

Page 28, line 17, delete in its entirety.

Page 29, lines 4 and 14, delete in their entirety.

Page 30, lines 2, 7 and 11, delete in their entirety.

Page 31, lines 6 and 13, delete in their entirety.

Page 32, lines 3, 16 and 23, delete in their entirety.

Page 33, lines 10 and 24, delete in their entirety.

Page 34, lines 10 and 22, delete in their entirety.

Page 35, lines 10 and 24, delete in their entirety.

Page 36, line 17, delete in its entirety.

Page 37, lines 5 and 12, delete in their entirety.

Page 38, lines 4 and 22, delete in their entirety.

Page 39, line 13, delete in its entirety.

Page 40, delete in its entirety.

Page 41, lines 1-6, delete in their entirety and substitute therefor:

--Description of The Reference Numerals--.

Page 44, delete in its entirety and substitute therefor:

--WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTERS

PATENT OF THE UNITED STATES IS--.

IN THE CLAIMS

Please cancel without prejudice Claims 1-8 and after the new heading added at page 44, please add new Claims 9-29 as follows:

1. A magneto-optical device comprising:

a substrate transparent to light in a visible spectral region;

a plurality of ferromagnetic layers having a width in an inclusive range of 5 through 100 nanometers and a thickness in an inclusive range of 0.1 through 5 microns;

wherein said ferromagnetic layers are parallel to each other and separated by a distance in an inclusive range of 0.2 through 2 microns.

2. The magneto-optical device of Claim 1, wherein said substrate defines grooves having side walls, said ferromagnetic layers being arranged on said side walls.